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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/570,598	06/28/2006	Norio Hayashi	023312-0121	9881
	7590 07/16/200 LARDNER LLP	EXAMINER		
SUITE 500	T NIXI	HISSONG, BRUCE D		
3000 K STREE WASHINGTO			ART UNIT	PAPER NUMBER
			1646	
			MAIL DATE	DELIVERY MODE
			07/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/570,59	98	HAYASHI, NORIO				
		Examine		Art Unit				
		Bruce D. I	Hissong, Ph.D.	1646				
 Period for	The MAILING DATE of this communica Reply	tion appears on the	cover sheet with the	correspondence ad	ldress			
WHICH - Extension after SIX - If NO period - Failure to Any rep	RTENED STATUTORY PERIOD FOR EVER IS LONGER, FROM THE MAIL ons of time may be available under the provisions of 3 (6) MONTHS from the mailing date of this community or reply is specified above, the maximum statute or reply within the set or extended period for reply will, by received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF TH 7 CFR 1.136(a). In no everation. Only period will apply and we by statute, cause the app	HIS COMMUNICATIO ent, however, may a reply be ti ill expire SIX (6) MONTHS fron lication to become ABANDONI	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).				
Status								
1)⊠ R	esponsive to communication(s) filed of	on 28 June 2006						
'=	•	☐ This action is r	on-final					
′=	,	<del></del>		osecution as to the	e merits is			
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	n of Claims	•	,					
· · ·		lication						
•	Claim(s) <u>1-12</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.							
•	laim(s) is/are rejected.							
•	laim(s) is/are objected to.							
8) Claim(s) <u>1-12</u> are subject to restriction and/or election requirement.								
Application	n Papers							
9)☐ The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Α	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority un	der 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice of the control of the cont	) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO- tion Disclosure Statement(s) (PTO/SB/08) lo(s)/Mail Date	-948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

## **DETAILED ACTION**

## Election/Restrictions

**A.** Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

**Group I**, claim(s) 1-10, drawn to pharmaceutical compositions for treating chronic hepatitis C.

**Group II**, claim(s) 11, drawn to a method of treating chronic hepatitis C.

**Group III**, claim(s) 12, drawn to use of interleukin-15, a myeloid dendritic cell maturation factor, and/or a lectin binding substance.

**B.** The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The first claimed invention fails to share a special technical feature with the other claims. PCT rules define a special technical feature as a feature that makes a contribution over the art. Claim 1 has no such special technical feature in view of Shimonaka (US 6,258,352). Claim 1 is drawn to a pharmaceutical composition for treating chronic hepatitis C, wherein said compositions comprises at least one of interleukin (IL)-15, myeloid dendritic cell maturation stimulators, and lectin-binding substances. Shimonaka teaches pharmaceutical compositions comprising IL-15 (column 4, lines 1-14). It is noted that claim 1 only requires that the pharmaceutical composition comprise IL-15, a myeloid dendritic cell maturation stimulator, or a lectin-binding substance, and because the composition of Shimonaka

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comprises IL-15, it would be expected, in the absence of evidence to the contrary, to be a composition for treating chronic hepatitis C. Therefore, because Shimonaka teaches an IL-15 pharmaceutical composition that meets the limitations of claim 1, claim 1 cannot share a special technical feature with the other claims.

C. Additionally, groups I-III, are subject to further restriction. It is noted that the claims are drawn to examination of at least one of a number of structurally distinct and non-overlapping polypeptides or compounds.

- 1. In order to be fully responsive, Applicant is required to further elect an active ingredient selected from: IL-15, myeloid dendritic cell maturation factors, or lectin-binding substances.
- 2. Furthermore, if Applicant elects a myeloid dendritic cell maturation factor, Applicant is further required to elect a specific factor selected from CpG oligo deoxynucleotide, GM-CSF, IL-4, LPS, CD40L, poly I:C, TNF-α, and IFN-γ.
- 3. If Applicant elects a lectin-binding substance, then Applicant is required to further elect a substance selected from mannose carbohydrates, fucose carbohydrages, and anti-lectin-antibodies.

This is NOT an election of species. The claimed active ingredients are non-overlapping polypeptide sequences and/or structurally distinct chemical compounds, and are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such active ingredient is presumed to represent an independent and distinct invention, subject to restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141. By statute "[i]f two or more independent and distinct inventions are claimed in one application, the Commissioner may require the application to be restricted to one of the inventions." 35 U.S.C. 121. Pursuant to this statute, the rules provide that "[i]f two or more independent and distinct inventions are claimed in a single application, the examiner in his action shall require the applicant.....to elect that invention to which his claim shall be restricted." 37 CRF 1.142(a). See also 37 CFR 1.141(a). It is noted that search more than one of the claimed patentably distinct active ingredients represents a serious burden for the office.

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**D.** Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and

examination burden if restriction were not required because one or more of the following reasons apply:

(a) the inventions have acquired a separate status in the art in view of their different

classification;

(b) the inventions have acquired a separate status in the art due to their recognized

divergent subject matter;

(c) the inventions require a different field of search (for example, searching different

classes/subclasses or electronic resources, or employing different search queries);

(d) the prior art applicable to one invention would not likely be applicable to another

invention;

(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101

and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an

**election of a invention to be examined** even though the requirement may be traversed (37 CFR 1.143)

and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to

petition, the election must be made with traverse. If the reply does not distinctly and specifically point

out supposed errors in the restriction requirement, the election shall be treated as an election without

traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to

timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims

are added after the election, applicant must indicate which of these claims are readable on the elected

invention.

If claims are added after the election, applicant must indicate which of these claims are readable

upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant

should submit evidence or identify such evidence now of record showing the inventions to be obvious

variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of

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the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

E. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

F. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce D. Hissong, Ph.D., whose telephone number is (571)272-3324. The examiner can normally be reached M-F from 8:30 am - 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol, Ph.D., can be reached at (571) 272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

Bruce D. Hissong Art Unit 1646

CANADA) or 571-272-1000.

/Robert Landsman/ Primary Examiner, Art Unit 1647